AMENDMENTS TO THE CLAIMS

1. (currently amended) A vehicle locating system for directing a user to a remotely-located vehicle, comprising:

a vehicle-mounted location unit including a first global positioning receiver for receiving satellite location signals, wherein said first global positioning receiver operates at a duty cycle sufficient to maintain predetermined aiding data, wherein said vehicle-mounted location unit processes vehicle location data, and wherein said vehicle-mounted location unit further includes a first local data transceiver for transmitting said predetermined aiding data; and

a portable fob including a second global positioning receiver for receiving said satellite location signals, wherein said second global positioning receiver operates substantially only when said user initiates a request for directions to said vehicle, wherein said portable fob further includes a second local data transceiver for receiving said predetermined aiding data from said first local data transceiver when within reception range of said first local data transceiver, and wherein said portable fob processes fob location data in response to said predetermined aiding data;

wherein said fob location data is transmitted from said second local data transceiver to said first local data transceiver, wherein said vehicle-mounted location unit determines a bearing in response to said fob location data and said vehicle location data, and wherein said bearing is transmitted from said first local data transceiver to said second local data transceiver.

- 2. (canceled)
- 3. (previously presented) The vehicle locating system of claim 1 wherein said portable fob further includes an electronically-controlled display for displaying said bearing.

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- 4. (original) The vehicle locating system of claim 1 wherein said portable fob further includes a dedicated GPS baseband processor for processing said fob location data.
- 5. (original) The vehicle locating system of claim 4 wherein said portable fob further includes a hardware correlator for processing said fob location data.
- 6. (original) The vehicle locating system of claim 1 wherein said aiding data is comprised of satellite ephemeris data.
- 7. (original) The vehicle locating system of claim 1 wherein said aiding data is comprised of satellite clock data.
- 8. (original) The vehicle locating system of claim 1 wherein said aiding data is comprised of satellite Doppler data.
- 9. (original) The vehicle locating system of claim 1 wherein said fob location data comprises geographic coordinates.
- 10. (original) The vehicle locating system of claim 1 wherein said fob location data comprises pseudo-range data.
- 11. (currently amended) A method of directing a user to a remotely-located vehicle, wherein said user carries a portable fob communicating with a vehicle-mounted location unit, said method comprising the steps of:

periodically receiving GPS signals from a fleet of GPS satellites in said vehicle-mounted location unit;

maintaining predetermined aiding data in said vehicle-mounted location unit in response to said GPS signals;

initiating a request at said portable fob for directions to said vehicle;

-3-(Serial No. 10/737,104) transmitting said predetermined aiding data to said portable fob in response to said request when said portable fob is within reception range of said vehicle-mounted location unit;

receiving GPS signals from said fleet of GPS satellites in said portable fob in response to said request;

said portable fob processing fob location data in response to said predetermined aiding data;

transmitting said fob location data to said vehicle-mounted location unit; said vehicle-mounted location unit determining a vehicle location; said vehicle-mounted location unit determining bearing information in response to said vehicle location and said fob location data;

transmitting said bearing information from said vehicle-mounted location unit to said portable fob; and

displaying said bearing information to said user.

- 12. (original) The method of claim 11 wherein said predetermined aiding data comprises satellite ephemeris data.
- 13. (original) The method of claim 11 wherein said predetermined aiding data comprises satellite clock data.
- 14. (original) The method of claim 11 wherein said predetermined aiding data comprises satellite Doppler data.
- 15. (original) The method of claim 11 wherein said step of initiating a request is comprised of activating a predetermined control element on said portable fob.

- 16. (original) The method of claim 11 wherein said transmitting steps utilize respective UHF transceivers in said portable fob and said vehicle-mounted location unit.
- 17. (original) The method of claim 11 wherein said fob location data comprises geographic coordinates.
- 18. (original) The method of claim 11 wherein said fob location data comprises pseudo-range data.
- 19. (original) The method of claim 11 wherein said bearing information comprises a direction heading.
- 20. (original) The method of claim 11 wherein said bearing information comprises a direction heading and a range.
- 21. (previously presented) The method of claim 11 wherein said fob location data comprises pseudo-range data and wherein said method further comprises the step of:

said vehicle-mounted location unit determining a portable fob location in response to said pseudo-range data.